

**Table B3.6.** Taxonomy table.

	<b>Kingdom</b>	<b>Phylum</b>	<b>Class</b>	<b>Order</b>
ASV_1	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_2	Bacteria	Firmicutes	Bacilli	Bacillales
ASV_3	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_4	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonadales
ASV_5	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_6	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_7	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_8	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_9	Bacteria	Actinobacteria	Actinobacteria	Streptosporangiales
ASV_10	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_11	Bacteria	Proteobacteria	Gammaproteobacteria	Cellvibrionales
ASV_12	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_13	Bacteria	Proteobacteria	Gammaproteobacteria	Gammaproteobacteria_Incertae_Sedis
ASV_14	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_15	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_16	Bacteria	Actinobacteria	Actinobacteria	Propionibacteriales
ASV_17	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales
ASV_18	Bacteria	Actinobacteria	Actinobacteria	Propionibacteriales
ASV_19	Bacteria	Actinobacteria	Actinobacteria	Propionibacteriales
ASV_20	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_21	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_22	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_23	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_24	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_25	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_26	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_27	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_28	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_29	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales
ASV_30	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_31	Bacteria	Bacteroidetes	Bacteroidia	Flavobacteriales
ASV_32	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales
ASV_33	Bacteria	Firmicutes	Bacilli	Bacillales
ASV_34	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_35	Bacteria	Firmicutes	Bacilli	Bacillales
ASV_36	Bacteria	Proteobacteria	Gammaproteobacteria	Cellvibrionales
ASV_37	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_38	Bacteria	Proteobacteria	Gammaproteobacteria	Enterobacteriales
ASV_39	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_40	Bacteria	Proteobacteria	Gammaproteobacteria	Steroidobacterales
ASV_41	Bacteria	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales
ASV_42	Bacteria	Actinobacteria	Actinobacteria	Frankiales
ASV_43	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_44	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales

ASV_45	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_46	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_47	Bacteria	Actinobacteria	Actinobacteria	Micrococcales
ASV_48	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_49	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_50	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_51	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_52	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_53	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_54	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_55	Bacteria	Actinobacteria	Actinobacteria	Pseudonocardiales
ASV_56	Bacteria	Proteobacteria	Gammaproteobacteria	Steroidobacterales
ASV_57	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_58	Bacteria	Actinobacteria	Actinobacteria	Streptomycetales
ASV_59	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_60	Bacteria	Actinobacteria	Actinobacteria	Streptomycetales
ASV_61	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_62	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_63	Bacteria	Nitrospirae	Nitrospira	Nitrospirales
ASV_64	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_65	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_66	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_67	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_68	Bacteria	Actinobacteria	Actinobacteria	Propionibacteriales
ASV_69	Bacteria	Actinobacteria	Actinobacteria	Frankiales
ASV_70	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_71	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_72	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_73	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_74	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_75	Bacteria	Proteobacteria	Alphaproteobacteria	Micropepsales
ASV_76	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales
ASV_77	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_78	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_79	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales
ASV_80	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_81	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_82	Bacteria	Actinobacteria	Actinobacteria	Propionibacteriales
ASV_83	Bacteria	Actinobacteria	Actinobacteria	Frankiales
ASV_84	Bacteria	Proteobacteria	Gammaproteobacteria	Cellvibrionales
ASV_85	Bacteria	Proteobacteria	Alphaproteobacteria	Reyranellales
ASV_86	Bacteria	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales
ASV_87	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_88	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales
ASV_89	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonadales
ASV_90	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_91	Bacteria	Proteobacteria	Alphaproteobacteria	Reyranellales

ASV_92	Bacteria	Verrucomicrobia	Verrucomicrobiae	Pedospheerales
ASV_93	Bacteria	Chloroflexi	Chloroflexia	Chloroflexales
ASV_94	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_95	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_96	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_97	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_98	Bacteria	Actinobacteria	Actinobacteria	Frankiales
ASV_99	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_100	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_101	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_102	Bacteria	Actinobacteria	Actinobacteria	Kineosporiales
ASV_103	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_104	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_105	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_106	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_107	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales
ASV_108	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales
ASV_109	Bacteria	Gemmatimonadetes	Longimicrobia	Longimicrobiales
ASV_110	Bacteria	Actinobacteria	Actinobacteria	Micrococcales
ASV_111	Bacteria	Actinobacteria	Actinobacteria	Frankiales
ASV_112	Bacteria	Actinobacteria	Thermoleophilia	Solirubrobacterales
ASV_113	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_114	Bacteria	Actinobacteria	Actinobacteria	Frankiales
ASV_115	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_116	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_117	Bacteria	Actinobacteria	Actinobacteria	Streptosporangiales
ASV_118	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_119	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_120	Bacteria	Actinobacteria	Actinobacteria	Frankiales
ASV_121	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_122	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_123	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_124	Bacteria	Actinobacteria	Actinobacteria	Propionibacteriales
ASV_125	Bacteria	Actinobacteria	Actinobacteria	Micrococcales
ASV_126	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_127	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_128	Bacteria	Actinobacteria	Thermoleophilia	Gaiellales
ASV_129	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_130	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_131	Bacteria	Firmicutes	Bacilli	Bacillales
ASV_132	Bacteria	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales
ASV_133	Bacteria	Proteobacteria	Gammaproteobacteria	Cellvibrionales
ASV_134	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_135	Bacteria	Actinobacteria	Actinobacteria	Pseudonocardiales
ASV_136	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_137	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodospirillales
ASV_138	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales

ASV_139	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_140	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_141	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales
ASV_142	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_143	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_144	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_145	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_146	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_147	Bacteria	Nitrospirae	Nitrospira	Nitrospirales
ASV_148	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_149	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonadales
ASV_150	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_151	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_152	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_153	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_154	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_155	Bacteria	Bacteroidetes	Bacteroidia	Flavobacteriales
ASV_156	Bacteria	Bacteroidetes	Bacteroidia	Flavobacteriales
ASV_157	Bacteria	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales
ASV_158	Bacteria	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales
ASV_159	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales
ASV_160	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_161	Bacteria	Acidobacteria	Blastocatellia_(Subgroup_4)	Pyrinomonadales
ASV_162	Bacteria	Actinobacteria	Actinobacteria	Corynebacteriales
ASV_163	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_164	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_165	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_166	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_167	Bacteria	Actinobacteria	Actinobacteria	Pseudonocardiales
ASV_168	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_169	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_170	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_171	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_172	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_173	Bacteria	Proteobacteria	Gammaproteobacteria	Cellvibrionales
ASV_174	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_175	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_176	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonadales
ASV_177	Bacteria	Actinobacteria	Actinobacteria	Pseudonocardiales
ASV_178	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_179	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_180	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonadales
ASV_181	Bacteria	Bacteroidetes	Bacteroidia	Cytophagales
ASV_182	Bacteria	Chloroflexi	Chloroflexia	Chloroflexales
ASV_183	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_184	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales
ASV_185	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales

ASV_186	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_187	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_188	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_189	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_190	Bacteria	Deinococcus-Thermus	Deinococci	Deinococcales
ASV_191	Bacteria	Proteobacteria	Deltaproteobacteria	Bdellovibrionales
ASV_192	Bacteria	Planctomycetes	Planctomycetacia	Pirellulales
ASV_193	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_194	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_195	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_196	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_197	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_198	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodospirillales
ASV_199	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_200	Bacteria	Proteobacteria	Gammaproteobacteria	Gammaproteobacteria_Incertae_Sedis
ASV_201	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonadales
ASV_202	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_203	Bacteria	Actinobacteria	Actinobacteria	Micrococcales
ASV_204	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_205	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_206	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_207	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_208	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_209	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_210	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_211	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_212	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_213	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales
ASV_214	Bacteria	Bacteroidetes	Bacteroidia	Cytophagales
ASV_215	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_216	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_217	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_218	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales
ASV_219	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_220	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_221	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonadales
ASV_222	Bacteria	Proteobacteria	Alphaproteobacteria	Tistrellales
ASV_223	Bacteria	Actinobacteria	Actinobacteria	Corynebacteriales
ASV_224	Bacteria	Planctomycetes	Planctomycetacia	Pirellulales
ASV_225	Bacteria	Proteobacteria	Alphaproteobacteria	Dongiales
ASV_226	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_227	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_228	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_229	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_230	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_231	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_232	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales

ASV_233	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_234	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_235	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_236	Bacteria	Actinobacteria	Actinobacteria	Pseudonocardiales
ASV_237	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_238	Bacteria	Actinobacteria	Thermoleophilia	Gaiellales
ASV_239	Bacteria	Actinobacteria	Actinobacteria	Kineosporiales
ASV_240	Bacteria	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales
ASV_241	Bacteria	Actinobacteria	Thermoleophilia	Solirubrobacterales
ASV_242	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_243	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_244	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_245	Bacteria	Firmicutes	Bacilli	Bacillales
ASV_246	Bacteria	Actinobacteria	Actinobacteria	Kineosporiales
ASV_247	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_248	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_249	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_250	Bacteria	Cyanobacteria	Oxyphotobacteria	Nostocales
ASV_251	Bacteria	Fibrobacteres	Fibrobacteria	Fibrobacterales
ASV_252	Bacteria	Proteobacteria	Alphaproteobacteria	Azospirillales
ASV_253	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_254	Bacteria	Actinobacteria	Actinobacteria	Propionibacteriales
ASV_255	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_256	Bacteria	Actinobacteria	Thermoleophilia	Solirubrobacterales
ASV_257	Bacteria	Nitrospirae	Nitrospira	Nitrospirales
ASV_258	Bacteria	Actinobacteria	Actinobacteria	Micrococcales
ASV_259	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_260	Bacteria	Proteobacteria	Deltaproteobacteria	Bdellovibrionales
ASV_261	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_262	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales
ASV_263	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_264	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_265	Bacteria	Verrucomicrobia	Verrucomicrobiae	Pedosphaerales
ASV_266	Bacteria	Proteobacteria	Alphaproteobacteria	Dongiales
ASV_267	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_268	Bacteria	Actinobacteria	Actinobacteria	Frankiales
ASV_269	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_270	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_271	Bacteria	Proteobacteria	Gammaproteobacteria	Oceanospirillales
ASV_272	Bacteria	Bacteroidetes	Bacteroidia	Cytophagales
ASV_273	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_274	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_275	Bacteria	Proteobacteria	Alphaproteobacteria	Paracaedibacterales
ASV_276	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_277	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_278	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_279	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales

ASV_280	Bacteria	Verrucomicrobia	Verrucomicrobiae	Pedosphaerales
ASV_281	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_282	Bacteria	Actinobacteria	Actinobacteria	Kineosporiales
ASV_283	Bacteria	Acidobacteria	Blastocatellia_(Subgroup_4)	Pyrinomonadales
ASV_284	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales
ASV_285	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_286	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_287	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_288	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales
ASV_289	Bacteria	Actinobacteria	Actinobacteria	Pseudonocardiales
ASV_290	Bacteria	Nitrospirae	Nitrospira	Nitrospirales
ASV_291	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_292	Bacteria	Bacteroidetes	Bacteroidia	Cytophagales
ASV_293	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_294	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_295	Bacteria	Acidobacteria	Blastocatellia_(Subgroup_4)	Pyrinomonadales
ASV_296	Bacteria	Nitrospirae	Nitrospira	Nitrospirales
ASV_297	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_298	Bacteria	Actinobacteria	Actinobacteria	Streptomycetales
ASV_299	Bacteria	Verrucomicrobia	Verrucomicrobiae	Pedosphaerales
ASV_300	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_301	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_302	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_303	Bacteria	Proteobacteria	Deltaproteobacteria	Oligoflexales
ASV_304	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_305	Bacteria	Proteobacteria	Gammaproteobacteria	Gammaproteobacteria_Incertae_Sedis
ASV_306	Bacteria	Verrucomicrobia	Verrucomicrobiae	Opitutales
ASV_307	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_308	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_309	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_310	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_311	Bacteria	Actinobacteria	Actinobacteria	Frankiales
ASV_312	Bacteria	Actinobacteria	Actinobacteria	Micrococcales
ASV_313	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales
ASV_314	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_315	Bacteria	Proteobacteria	Alphaproteobacteria	Tistrellales
ASV_316	Bacteria	Proteobacteria	Gammaproteobacteria	Cellvibrionales
ASV_317	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_318	Bacteria	Actinobacteria	Actinobacteria	Pseudonocardiales
ASV_319	Bacteria	Actinobacteria	Thermoleophilia	Gaiellales
ASV_320	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_321	Bacteria	Proteobacteria	Gammaproteobacteria	Steroidobacterales
ASV_322	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_323	Bacteria	Nitrospirae	Nitrospira	Nitrospirales
ASV_324	Bacteria	Proteobacteria	Deltaproteobacteria	Bdellovibrionales
ASV_325	Bacteria	Actinobacteria	Actinobacteria	Pseudonocardiales
ASV_326	Bacteria	Verrucomicrobia	Verrucomicrobiae	Pedosphaerales

ASV_327	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_328	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_329	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_330	Bacteria	Bacteroidetes	Bacteroidia	Cytophagales
ASV_331	Bacteria	Verrucomicrobia	Verrucomicrobiae	Pedosphaerales
ASV_332	Bacteria	Actinobacteria	Actinobacteria	Micrococcales
ASV_333	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_334	Bacteria	Actinobacteria	Actinobacteria	Kineosporiales
ASV_335	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_336	Bacteria	Bacteroidetes	Bacteroidia	Flavobacteriales
ASV_337	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_338	Bacteria	Verrucomicrobia	Verrucomicrobiae	Opitutales
ASV_339	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_340	Bacteria	Actinobacteria	Thermoleophilia	Solirubrobacterales
ASV_341	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales
ASV_342	Bacteria	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales
ASV_343	Bacteria	Entotheonellaeota	Entotheonellia	Entotheonellales
ASV_344	Bacteria	Proteobacteria	Deltaproteobacteria	Desulfarculales
ASV_345	Bacteria	Actinobacteria	Actinobacteria	Kineosporiales
ASV_346	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_347	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_348	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales
ASV_349	Bacteria	Proteobacteria	Gammaproteobacteria	Steroidobacterales
ASV_350	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_351	Bacteria	Actinobacteria	Rubrobacteria	Rubrobacterales
ASV_352	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_353	Bacteria	Actinobacteria	Acidimicrobiia	Microtrichales
ASV_354	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_355	Bacteria	Actinobacteria	Acidimicrobiia	Microtrichales
ASV_356	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_357	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_358	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_359	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_360	Bacteria	Actinobacteria	Actinobacteria	Kineosporiales
ASV_361	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_362	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_363	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_364	Bacteria	Acidobacteria	Acidobacteriia	Solibacterales
ASV_365	Bacteria	Actinobacteria	Actinobacteria	Micrococcales
ASV_366	Bacteria	Actinobacteria	Actinobacteria	Micrococcales
ASV_367	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_368	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_369	Bacteria	Firmicutes	Bacilli	Bacillales
ASV_370	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_371	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales
ASV_372	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_373	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales



ASV_374	Bacteria	Proteobacteria	Gammaproteobacteria	Gammaproteobacteria_Incertae_Sedis
ASV_375	Bacteria	Bacteroidetes	Bacteroidia	Cytophagales
ASV_376	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_377	Bacteria	Actinobacteria	Thermoleophilia	Solirubrobacterales
ASV_378	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_379	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_380	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_381	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonadales
ASV_382	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_383	Bacteria	Actinobacteria	Actinobacteria	Streptomycetales
ASV_384	Bacteria	Actinobacteria	Actinobacteria	Frankiales
ASV_385	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_386	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_387	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_388	Bacteria	Actinobacteria	Thermoleophilia	Solirubrobacterales
ASV_389	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_390	Bacteria	Verrucomicrobia	Verrucomicrobiae	Pedosphaerales
ASV_391	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_392	Bacteria	Verrucomicrobia	Verrucomicrobiae	Pedosphaerales
ASV_393	Bacteria	Proteobacteria	Alphaproteobacteria	Rickettsiales
ASV_394	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_395	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_396	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_397	Bacteria	Firmicutes	Bacilli	Bacillales
ASV_398	Bacteria	Bacteroidetes	Bacteroidia	Cytophagales
ASV_399	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales
ASV_400	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales
ASV_401	Bacteria	Proteobacteria	Alphaproteobacteria	Dongiales
ASV_402	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_403	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_404	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_405	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_406	Bacteria	Actinobacteria	Actinobacteria	Micrococcales
ASV_407	Bacteria	Actinobacteria	Actinobacteria	Pseudonocardiales
ASV_408	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_409	Bacteria	Actinobacteria	Actinobacteria	Propionibacteriales
ASV_410	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_411	Bacteria	Actinobacteria	Acidimicrobiia	Microtrichales
ASV_412	Bacteria	Proteobacteria	Gammaproteobacteria	Gammaproteobacteria_Incertae_Sedis
ASV_413	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_414	Bacteria	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales
ASV_415	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_416	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_417	Bacteria	Actinobacteria	Actinobacteria	Propionibacteriales
ASV_418	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_419	Bacteria	Proteobacteria	Deltaproteobacteria	Bdellovibrionales
ASV_420	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales

ASV_421	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales
ASV_422	Bacteria	Bacteroidetes	Bacteroidia	Cytophagales
ASV_423	Bacteria	Actinobacteria	Actinobacteria	Streptomycetales
ASV_424	Bacteria	Actinobacteria	Actinobacteria	Propionibacteriales
ASV_425	Bacteria	Actinobacteria	Actinobacteria	Pseudonocardiales
ASV_426	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_427	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales
ASV_428	Bacteria	Actinobacteria	Actinobacteria	Pseudonocardiales
ASV_429	Bacteria	Verrucomicrobia	Verrucomicrobiae	Pedosphaerales
ASV_430	Bacteria	Bacteroidetes	Bacteroidia	Flavobacteriales
ASV_431	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_432	Bacteria	Chlamydiae	Chlamydiae	Chlamydiales
ASV_433	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_434	Bacteria	Actinobacteria	Actinobacteria	Propionibacteriales
ASV_435	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_436	Bacteria	Actinobacteria	Actinobacteria	Pseudonocardiales
ASV_437	Bacteria	Actinobacteria	Actinobacteria	Pseudonocardiales
ASV_438	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales
ASV_439	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonadales
ASV_440	Bacteria	Actinobacteria	Actinobacteria	Pseudonocardiales
ASV_441	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_442	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_443	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_444	Bacteria	Actinobacteria	Rubrobacteria	Rubrobacterales
ASV_445	Bacteria	Bacteroidetes	Bacteroidia	Cytophagales
ASV_446	Bacteria	Fibrobacteres	Fibrobacteria	Fibrobacterales
ASV_447	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_448	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_449	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_450	Bacteria	Bacteroidetes	Bacteroidia	Cytophagales
ASV_451	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_452	Bacteria	Actinobacteria	Actinobacteria	Frankiales
ASV_453	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_454	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_455	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_456	Bacteria	Actinobacteria	Thermoleophilia	Gaiellales
ASV_457	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonadales
ASV_458	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_459	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_460	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_461	Bacteria	Actinobacteria	Actinobacteria	Micrococcales
ASV_462	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_463	Bacteria	Bacteroidetes	Bacteroidia	Cytophagales
ASV_464	Bacteria	Proteobacteria	Gammaproteobacteria	Salinisphaerales
ASV_465	Bacteria	Actinobacteria	Thermoleophilia	Solirubrobacterales
ASV_466	Bacteria	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales
ASV_467	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales

ASV_468	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_469	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_470	Bacteria	Proteobacteria	Gammaproteobacteria	Steroidobacterales
ASV_471	Bacteria	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales
ASV_472	Bacteria	Bacteroidetes	Bacteroidia	Cytophagales
ASV_473	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_474	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_475	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_476	Bacteria	Actinobacteria	Actinobacteria	Frankiales
ASV_477	Bacteria	Proteobacteria	Gammaproteobacteria	Enterobacteriales
ASV_478	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_479	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_480	Bacteria	Verrucomicrobia	Verrucomicrobiae	Pedosphaerales
ASV_481	Bacteria	Actinobacteria	Actinobacteria	Frankiales
ASV_482	Bacteria	Actinobacteria	Actinobacteria	Micrococcales
ASV_483	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_484	Bacteria	Actinobacteria	Thermoleophilia	Gaiellales
ASV_485	Bacteria	Gemmatimonadetes	Longimicrobia	Longimicrobiales
ASV_486	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_487	Bacteria	Actinobacteria	Rubrobacteria	Rubrobacterales
ASV_488	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_489	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_490	Bacteria	Bacteroidetes	Bacteroidia	Sphingobacteriales
ASV_491	Bacteria	Bacteroidetes	Bacteroidia	Flavobacteriales
ASV_492	Bacteria	Proteobacteria	Alphaproteobacteria	Micropepsales
ASV_493	Bacteria	Proteobacteria	Gammaproteobacteria	Steroidobacterales
ASV_494	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_495	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_496	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_497	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_498	Bacteria	Proteobacteria	Gammaproteobacteria	Steroidobacterales
ASV_499	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_500	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales
ASV_501	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_502	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_503	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_504	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_505	Bacteria	Proteobacteria	Alphaproteobacteria	Reyranellales
ASV_506	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodospirillales
ASV_507	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_508	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_509	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_510	Bacteria	Bacteroidetes	Bacteroidia	Cytophagales
ASV_511	Bacteria	Actinobacteria	Actinobacteria	Pseudonocardiales
ASV_512	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_513	Bacteria	Firmicutes	Bacilli	Bacillales
ASV_514	Bacteria	Bacteroidetes	Bacteroidia	Chitinophagales

ASV_515	Bacteria	Bacteroidetes	Bacteroidia	Cytophagales
ASV_516	Bacteria	Actinobacteria	Actinobacteria	Micrococcales
ASV_517	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_518	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_519	Bacteria	Proteobacteria	Deltaproteobacteria	Desulfarculales
ASV_520	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodospirillales
ASV_521	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_522	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonadales
ASV_523	Bacteria	Bacteroidetes	Bacteroidia	Cytophagales
ASV_524	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales
ASV_525	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_526	Bacteria	Proteobacteria	Gammaproteobacteria	Steroidobacterales
ASV_527	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_528	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_529	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_530	Bacteria	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales
ASV_531	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_532	Bacteria	Bacteroidetes	Bacteroidia	Flavobacteriales
ASV_533	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_534	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_535	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_536	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_537	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales
ASV_538	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_539	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_540	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_541	Bacteria	Actinobacteria	Rubrobacteria	Rubrobacterales
ASV_542	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_543	Bacteria	Firmicutes	Bacilli	Lactobacillales
ASV_544	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_545	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodospirillales
ASV_546	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_547	Bacteria	Acidobacteria	Blastocatellia_(Subgroup_4)	Blastocatellales
ASV_548	Bacteria	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales
ASV_549	Bacteria	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales
ASV_550	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales
ASV_551	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_552	Bacteria	Actinobacteria	Actinobacteria	Propionibacteriales
ASV_553	Bacteria	Actinobacteria	Actinobacteria	Kineosporiales
ASV_554	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_555	Bacteria	Proteobacteria	Alphaproteobacteria	Acetobacterales
ASV_556	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_557	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_558	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_559	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_560	Bacteria	Actinobacteria	Actinobacteria	Streptomycetales
ASV_561	Bacteria	Actinobacteria	Actinobacteria	Frankiales

ASV_562	Bacteria	Bacteroidetes	Bacteroidia	Sphingobacteriales
ASV_563	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_564	Bacteria	Proteobacteria	Gammaproteobacteria	Salinisphaerales
ASV_565	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_566	Bacteria	Proteobacteria	Alphaproteobacteria	Micropepsales
ASV_567	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_568	Bacteria	Bacteroidetes	Bacteroidia	Sphingobacteriales
ASV_569	Bacteria	Actinobacteria	Actinobacteria	Micrococcales
ASV_570	Bacteria	Chloroflexi	Anaerolineae	Ardenticatenales
ASV_571	Bacteria	Firmicutes	Bacilli	Bacillales
ASV_572	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_573	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_574	Bacteria	Actinobacteria	Actinobacteria	Pseudonocardiales
ASV_575	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_576	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales
ASV_577	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_578	Bacteria	Verrucomicrobia	Verrucomicrobiae	Opitutales
ASV_579	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_580	Bacteria	Bacteroidetes	Bacteroidia	Sphingobacteriales
ASV_581	Bacteria	Actinobacteria	Thermoleophilia	Gaiellales
ASV_582	Bacteria	Verrucomicrobia	Verrucomicrobiae	Pedosphaerales
ASV_583	Bacteria	Proteobacteria	Gammaproteobacteria	Cellvibrionales
ASV_584	Bacteria	Bacteroidetes	Bacteroidia	Cytophagales
ASV_585	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_586	Bacteria	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales
ASV_587	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_588	Bacteria	Actinobacteria	Actinobacteria	Corynebacteriales
ASV_589	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_590	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales
ASV_591	Bacteria	Proteobacteria	Alphaproteobacteria	Acetobacterales
ASV_592	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_593	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_594	Bacteria	Actinobacteria	Actinobacteria	Pseudonocardiales
ASV_595	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_596	Bacteria	Proteobacteria	Gammaproteobacteria	Alteromonadales
ASV_597	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales
ASV_598	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_599	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_600	Bacteria	Gemmatimonadetes	Longimicrobia	Longimicrobiales
ASV_601	Bacteria	Actinobacteria	Actinobacteria	Propionibacteriales
ASV_602	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_603	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales
ASV_604	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_605	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_606	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales
ASV_607	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_608	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales

ASV_609	Bacteria	Planctomycetes	Planctomycetacia	Pirellulales
ASV_610	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodospirillales
ASV_611	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_612	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_613	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales
ASV_614	Bacteria	Actinobacteria	Actinobacteria	Pseudonocardiales
ASV_615	Bacteria	Actinobacteria	Actinobacteria	Micrococcales
ASV_616	Bacteria	Actinobacteria	Thermoleophilia	Solirubrobacterales
ASV_617	Bacteria	Actinobacteria	Acidimicrobiia	Microtrichales
ASV_618	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_619	Bacteria	Proteobacteria	Gammaproteobacteria	Steroidobacterales
ASV_620	Bacteria	Actinobacteria	Acidimicrobiia	Microtrichales
ASV_621	Bacteria	Verrucomicrobia	Verrucomicrobiae	Pedosphaerales
ASV_622	Bacteria	Bacteroidetes	Bacteroidia	Flavobacteriales
ASV_623	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_624	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_625	Bacteria	Proteobacteria	Deltaproteobacteria	Bdellovibrionales
ASV_626	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_627	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_628	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodospirillales
ASV_629	Bacteria	Actinobacteria	Actinobacteria	Micrococcales
ASV_630	Bacteria	Actinobacteria	Actinobacteria	Micrococcales
ASV_631	Bacteria	Proteobacteria	Deltaproteobacteria	Oligoflexales
ASV_632	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_633	Bacteria	Bacteroidetes	Bacteroidia	Cytophagales
ASV_634	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_635	Bacteria	Actinobacteria	Actinobacteria	Frankiales
ASV_636	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales
ASV_637	Bacteria	Actinobacteria	Actinobacteria	Corynebacteriales
ASV_638	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_639	Bacteria	Actinobacteria	Acidimicrobiia	Microtrichales
ASV_640	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_641	Bacteria	Proteobacteria	Alphaproteobacteria	Reyranellales
ASV_642	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales
ASV_643	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_644	Bacteria	Nitrospirae	Nitrospira	Nitrospirales
ASV_645	Bacteria	Actinobacteria	Thermoleophilia	Gaiellales
ASV_646	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales
ASV_647	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_648	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_649	Bacteria	Actinobacteria	Acidimicrobiia	Microtrichales
ASV_650	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_651	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_652	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_653	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_654	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_655	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales

ASV_656	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_657	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_658	Bacteria	Proteobacteria	Deltaproteobacteria	Oligoflexales
ASV_659	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_660	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_661	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_662	Bacteria	Bacteroidetes	Bacteroidia	Flavobacteriales
ASV_663	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_664	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_665	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_666	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_667	Bacteria	Proteobacteria	Deltaproteobacteria	Bdellovibrionales
ASV_668	Bacteria	Proteobacteria	Alphaproteobacteria	Reyranelles
ASV_669	Bacteria	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales
ASV_670	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_671	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales
ASV_672	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_673	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_674	Bacteria	Proteobacteria	Alphaproteobacteria	Rickettsiales
ASV_675	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_676	Bacteria	Nitrospirae	Nitrospira	Nitrospirales
ASV_677	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_678	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_679	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_680	Bacteria	Actinobacteria	Actinobacteria	Pseudonocardiales
ASV_681	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_682	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_683	Bacteria	Proteobacteria	Gammaproteobacteria	Salinisphaerales
ASV_684	Bacteria	Planctomycetes	Phycisphaerae	Phycisphaerales
ASV_685	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_686	Bacteria	Actinobacteria	Actinobacteria	Kineosporiales
ASV_687	Bacteria	Actinobacteria	Actinobacteria	Propionibacteriales
ASV_688	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_689	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_690	Bacteria	Verrucomicrobia	Verrucomicrobiae	Pedospaerales
ASV_691	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_692	Bacteria	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales
ASV_693	Bacteria	Proteobacteria	Gammaproteobacteria	Oceanospirillales
ASV_694	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_695	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_696	Bacteria	Actinobacteria	Actinobacteria	Pseudonocardiales
ASV_697	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_698	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_699	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_700	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_701	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_702	Bacteria	Proteobacteria	Gammaproteobacteria	Steroidobacterales

ASV_703	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_704	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_705	Bacteria	Actinobacteria	Acidimicrobiia	Microtrichales
ASV_706	Bacteria	Proteobacteria	Alphaproteobacteria	Micropepsales
ASV_707	Bacteria	Actinobacteria	Actinobacteria	Micrococcales
ASV_708	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_709	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_710	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_711	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales
ASV_712	Bacteria	Bacteroidetes	Bacteroidia	Cytophagales
ASV_713	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_714	Bacteria	Actinobacteria	Actinobacteria	Propionibacteriales
ASV_715	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonadales
ASV_716	Bacteria	Actinobacteria	Actinobacteria	Pseudonocardiales
ASV_717	Bacteria	Proteobacteria	Deltaproteobacteria	Bdellovibrionales
ASV_718	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_719	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_720	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_721	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_722	Bacteria	Proteobacteria	Alphaproteobacteria	Azospirillales
ASV_723	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_724	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_725	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_726	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_727	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_728	Bacteria	Actinobacteria	Actinobacteria	Micrococcales
ASV_729	Bacteria	Actinobacteria	Actinobacteria	Micrococcales
ASV_730	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_731	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_732	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_733	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_734	Bacteria	Verrucomicrobia	Verrucomicrobiae	Pedospaerales
ASV_735	Bacteria	Actinobacteria	Thermoleophilia	Solirubrobacterales
ASV_736	Bacteria	Proteobacteria	Alphaproteobacteria	Micropepsales
ASV_737	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_738	Bacteria	Actinobacteria	Acidimicrobiia	Microtrichales
ASV_739	Bacteria	Bacteroidetes	Bacteroidia	Flavobacteriales
ASV_740	Bacteria	Proteobacteria	Gammaproteobacteria	Steroidobacterales
ASV_741	Bacteria	Proteobacteria	Deltaproteobacteria	Bdellovibrionales
ASV_742	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_743	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales
ASV_744	Bacteria	Actinobacteria	Actinobacteria	Frankiales
ASV_745	Bacteria	Actinobacteria	Thermoleophilia	Solirubrobacterales
ASV_746	Bacteria	Actinobacteria	Actinobacteria	Propionibacteriales
ASV_747	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_748	Bacteria	Actinobacteria	Actinobacteria	Frankiales
ASV_749	Bacteria	Proteobacteria	Alphaproteobacteria	Azospirillales



ASV_750	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_751	Bacteria	Actinobacteria	Actinobacteria	Micrococcales
ASV_752	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_753	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_754	Bacteria	Acidobacteria	Blastocatellia_(Subgroup_4)	Pyrinomonadales
ASV_755	Bacteria	Bacteroidetes	Bacteroidia	Chitinophagales
ASV_756	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_757	Bacteria	Acidobacteria	Thermoanaerobaculia	Thermoanaerobaculales
ASV_758	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_759	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales
ASV_760	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_761	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_762	Bacteria	Actinobacteria	Thermoleophilia	Solirubrobacterales
ASV_763	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_764	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_765	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_766	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_767	Bacteria	Firmicutes	Bacilli	Bacillales
ASV_768	Bacteria	Actinobacteria	Acidimicrobiia	Microtrichales
ASV_769	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodospirillales
ASV_770	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_771	Bacteria	Proteobacteria	Deltaproteobacteria	Oligoflexales
ASV_772	Bacteria	Actinobacteria	Actinobacteria	Streptosporangiales
ASV_773	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_774	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales
ASV_775	Bacteria	Actinobacteria	Actinobacteria	Kineosporiales
ASV_776	Bacteria	Proteobacteria	Deltaproteobacteria	Oligoflexales
ASV_777	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_778	Bacteria	Proteobacteria	Deltaproteobacteria	Desulfarcucales
ASV_779	Bacteria	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales
ASV_780	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_781	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_782	Bacteria	Acidobacteria	Thermoanaerobaculia	Thermoanaerobaculales
ASV_783	Bacteria	Bacteroidetes	Bacteroidia	Cytophagales
ASV_784	Bacteria	Bacteroidetes	Bacteroidia	Cytophagales
ASV_785	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_786	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_787	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_788	Bacteria	Bacteroidetes	Bacteroidia	Cytophagales
ASV_789	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales
ASV_790	Bacteria	Bacteroidetes	Bacteroidia	Sphingobacteriales
ASV_791	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_792	Bacteria	Bacteroidetes	Bacteroidia	Cytophagales
ASV_793	Bacteria	Proteobacteria	Alphaproteobacteria	Acetobacterales
ASV_794	Bacteria	Actinobacteria	Actinobacteria	Frankiales
ASV_795	Bacteria	Bacteroidetes	Bacteroidia	Sphingobacteriales
ASV_796	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales

ASV_797	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_798	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_799	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_800	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_801	Bacteria	Bacteroidetes	Bacteroidia	Cytophagales
ASV_802	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales
ASV_803	Bacteria	Proteobacteria	Gammaproteobacteria	Oceanospirillales
ASV_804	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodospirillales
ASV_805	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_806	Bacteria	Planctomycetes	Planctomycetacia	Pirellulales
ASV_807	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_808	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_809	Bacteria	Proteobacteria	Alphaproteobacteria	Dongiales
ASV_810	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_811	Bacteria	Acidobacteria	Subgroup_6	Unknown_Order
ASV_812	Bacteria	Proteobacteria	Alphaproteobacteria	Rickettsiales
ASV_813	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_814	Bacteria	Proteobacteria	Alphaproteobacteria	Paracaedibacterales
ASV_815	Bacteria	Planctomycetes	Phycisphaerae	Phycisphaerales
ASV_816	Bacteria	Actinobacteria	Thermoleophilia	Solirubrobacterales
ASV_817	Bacteria	Proteobacteria	Deltaproteobacteria	Oligoflexales
ASV_818	Bacteria	Bacteroidetes	Bacteroidia	Chitinophagales
ASV_819	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales
ASV_820	Bacteria	Proteobacteria	Gammaproteobacteria	Cellvibrionales
ASV_821	Bacteria	Armatimonadetes	Fimbriimonadia	Fimbriimonadales
ASV_822	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_823	Bacteria	Actinobacteria	Rubrobacteria	Rubrobacterales
ASV_824	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_825	Bacteria	Actinobacteria	Acidimicrobiia	Microtrichales
ASV_826	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_827	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_828	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales
ASV_829	Bacteria	Actinobacteria	Acidimicrobiia	Microtrichales
ASV_830	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_831	Bacteria	Proteobacteria	Deltaproteobacteria	Desulfarculales
ASV_832	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_833	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_834	Bacteria	Planctomycetes	Planctomycetacia	Pirellulales
ASV_835	Bacteria	Proteobacteria	Gammaproteobacteria	Oceanospirillales
ASV_836	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_837	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_838	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_839	Bacteria	Acidobacteria	Acidobacteriia	Acidobacteriales
ASV_840	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_841	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_842	Bacteria	Bacteroidetes	Bacteroidia	Cytophagales
ASV_843	Bacteria	Bacteroidetes	Bacteroidia	Cytophagales

ASV_844	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales
ASV_845	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_846	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_847	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_848	Bacteria	Actinobacteria	Thermoleophilia	Solirubrobacterales
ASV_849	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_850	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_851	Bacteria	Armatimonadetes	Fimbriimonadia	Fimbriimonadales
ASV_852	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales
ASV_853	Bacteria	Bacteroidetes	Bacteroidia	Cytophagales
ASV_854	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonadales
ASV_855	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_856	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_857	Bacteria	Planctomycetes	Phycisphaerae	Phycisphaerales
ASV_858	Bacteria	Bacteroidetes	Bacteroidia	Flavobacteriales
ASV_859	Bacteria	Bacteroidetes	Bacteroidia	Cytophagales
ASV_860	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_861	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_862	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_863	Bacteria	Actinobacteria	Actinobacteria	Pseudonocardiales
ASV_864	Bacteria	Actinobacteria	Actinobacteria	Micrococcales
ASV_865	Bacteria	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales
ASV_866	Bacteria	Actinobacteria	Thermoleophilia	Solirubrobacterales
ASV_867	Bacteria	Acidobacteria	Acidobacteriia	Solibacterales
ASV_868	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_869	Bacteria	Gemmatimonadetes	Longimicrobia	Longimicrobiales
ASV_870	Bacteria	Armatimonadetes	Fimbriimonadia	Fimbriimonadales
ASV_871	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_872	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales
ASV_873	Bacteria	Bacteroidetes	Bacteroidia	Flavobacteriales
ASV_874	Bacteria	Acidobacteria	Acidobacteriia	Solibacterales
ASV_875	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_876	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales
ASV_877	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales
ASV_878	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_879	Bacteria	Planctomycetes	Planctomycetacia	Pirellulales
ASV_880	Bacteria	Proteobacteria	Gammaproteobacteria	Steroidobacterales
ASV_881	Bacteria	Bacteroidetes	Bacteroidia	Sphingobacteriales
ASV_882	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_883	Bacteria	Proteobacteria	Alphaproteobacteria	Rickettsiales
ASV_884	Bacteria	Verrucomicrobia	Verrucomicrobiae	Pedosphaerales
ASV_885	Bacteria	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales
ASV_886	Bacteria	Bacteroidetes	Bacteroidia	Cytophagales
ASV_887	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_888	Bacteria	Bacteroidetes	Bacteroidia	Flavobacteriales
ASV_889	Bacteria	Verrucomicrobia	Verrucomicrobiae	Pedosphaerales
ASV_890	Bacteria	Proteobacteria	Deltaproteobacteria	Oligoflexales

ASV_891	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_892	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_893	Bacteria	Proteobacteria	Gammaproteobacteria	Oceanospirillales
ASV_894	Bacteria	Actinobacteria	Actinobacteria	Micromonosporales
ASV_895	Bacteria	Proteobacteria	Alphaproteobacteria	Paracaedibacterales
ASV_896	Bacteria	Proteobacteria	Gammaproteobacteria	Steroidobacterales
ASV_897	Bacteria	Acidobacteria	Blastocatellia_(Subgroup_4)	Blastocatellales
ASV_898	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales
ASV_899	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales
ASV_900	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales
ASV_901	Bacteria	Proteobacteria	Gammaproteobacteria	Betaproteobacteriales

Family	Genus
Burkholderiaceae	Delftia
Bacillaceae	Anaerobacillus
Burkholderiaceae	Roseateles
Pseudomonadaceae	Pseudomonas
Burkholderiaceae	Limnobacter
Burkholderiaceae	Ramlibacter
Burkholderiaceae	Acidovorax
Burkholderiaceae	Rubrivivax
Thermomonosporaceae	Actinomadura
Rhizobiaceae	Falsochrobactrum
Cellvibrionaceae	Cellvibrio
Methylophilaceae	Methylophilus
Unknown_Family	Acidibacter
TRA3-20	NA
Burkholderiaceae	Rhizobacter
Nocardiodaceae	Nocardioides
Xanthomonadaceae	Stenotrophomonas
Propionibacteriaceae	Cutibacterium
Propionibacteriaceae	Microthlax
Xanthobacteraceae	Bradyrhizobium
Burkholderiaceae	Pelomonas
Burkholderiaceae	Massilia
Burkholderiaceae	Curvibacter
Xanthobacteraceae	Pseudolabrys
Burkholderiaceae	Variovorax
Burkholderiaceae	Rhizobacter
Caulobacteraceae	NA
Rhizobiaceae	Allorhizobium-Neorhizobium-Pararhizobium-Rhizobium
Xanthomonadaceae	Lysobacter
Burkholderiaceae	Variovorax
Flavobacteriaceae	Flavobacterium
Micromonosporaceae	Actinoplanes
Bacillaceae	Anaerobacillus
Burkholderiaceae	Ramlibacter
Bacillaceae	Anaerobacillus
Cellvibrionaceae	Cellvibrio
SC-I-84	NA
Enterobacteriaceae	Escherichia/Shigella
Burkholderiaceae	Achromobacter
Steroidobacteraceae	Steroidobacter
Gemmatimonadaceae	Gemmatimonas
Geodermatophilaceae	Blastococcus
Rhizobiaceae	NA
Caulobacteraceae	Asticcacaulis

Xanthobacteraceae	Rhodoplanes
Devosiaceae	Devosia
Cellulomonadaceae	Cellulomonas
Rhizobiaceae	NA
Burkholderiaceae	Ramlibacter
Burkholderiaceae	Ramlibacter
Burkholderiaceae	Aquabacterium
Caulobacteraceae	Phenylobacterium
Burkholderiaceae	Pseudoduganella
Sphingomonadaceae	Altererythrobacter
Pseudonocardiaceae	Lechevalieria
Steroidobacteraceae	Steroidobacter
Sphingomonadaceae	Altererythrobacter
Streptomycetaceae	Streptomyces
Burkholderiaceae	Acidovorax
Streptomycetaceae	Streptomyces
Methylophilaceae	Methylobacillus
Caulobacteraceae	Brevundimonas
Nitrospiraceae	Nitrospira
Sphingomonadaceae	Sphingobium
Caulobacteraceae	NA
Caulobacteraceae	Caulobacter
Burkholderiaceae	Ramlibacter
Nocardiodaceae	Nocardioides
Geodermatophilaceae	Blastococcus
Hyphomonadaceae	Hirschia
Burkholderiaceae	Ralstonia
Sphingomonadaceae	Sphingomonas
SC-I-84	NA
Burkholderiaceae	Duganella
Micropepsaceae	NA
Xanthomonadaceae	Lysobacter
Burkholderiaceae	Massilia
Sphingomonadaceae	Sphingobium
Micromonosporaceae	Couchioplanes
Burkholderiaceae	Rhizobacter
Burkholderiaceae	Limnobacter
Nocardiodaceae	Nocardioides
Frankiaceae	Jatrophihabitans
Spongiibacteraceae	BD1-7_clade
Reyranellaceae	Reyranella
Gemmatimonadaceae	NA
Burkholderiaceae	Aquabacterium
Micromonosporaceae	NA
Pseudomonadaceae	Pseudomonas
Burkholderiaceae	Achromobacter
Reyranellaceae	Reyranella

Pedosphaeraceae	NA
Roseiflexaceae	NA
Caulobacteraceae	Caulobacter
Nitrosomonadaceae	MND1
Burkholderiaceae	Ramlibacter
Sphingomonadaceae	Sphingomonas
Geodermatophilaceae	Blastococcus
Caulobacteraceae	NA
Burkholderiaceae	Pseudoduganella
Burkholderiaceae	Caenimonas
Kineosporiaceae	Kineosporia
Burkholderiaceae	Noviherbaspirillum
Rhizobiaceae	Shinella
Burkholderiaceae	Rhizobacter
SC-I-84	NA
Xanthomonadaceae	Lysobacter
Micromonosporaceae	Actinoplanes
Longimicrobiaceae	NA
Microbacteriaceae	Agromyces
Cryptosporangiaceae	Cryptosporangium
Solirubrobacteraceae	Solirubrobacter
Burkholderiaceae	NA
Geodermatophilaceae	Geodermatophilus
Sphingomonadaceae	Sphingomonas
Caulobacteraceae	Phenylobacterium
Thermomonosporaceae	Actinomadura
Sandaracinaceae	NA
Xanthobacteraceae	NA
Geodermatophilaceae	Blastococcus
Haliangiaceae	Haliangium
Burkholderiaceae	Acidovorax
Sphingomonadaceae	Sphingomonas
Nocardioideaceae	Nocardioideae
Micrococcaceae	Pseudarthrobacter
Burkholderiaceae	Ramlibacter
Sphingomonadaceae	Sphingomonas
Gaiellaceae	Gaiella
Devosiaceae	Devosia
BIrii41	NA
Bacillaceae	Anaerobacillus
Gemmatimonadaceae	NA
Spongiibacteraceae	BD1-7_clade
Caulobacteraceae	Brevundimonas
Pseudonocardiaceae	Lechevalieria
Nitrosomonadaceae	MND1
Magnetospiraceae	NA
Burkholderiaceae	Duganella

Burkholderiaceae	NA
Caulobacteraceae	NA
Micromonosporaceae	Phytohabitans
Xanthobacteraceae	NA
Rhizobiaceae	Shinella
Sphingomonadaceae	NA
Burkholderiaceae	Acidovorax
Devosiaceae	Devosia
Nitrospiraceae	Nitrospira
BIrii41	NA
Pseudomonadaceae	Pseudomonas
Beijerinckiaceae	Microvirga
Sphingomonadaceae	Altererythrobacter
Burkholderiaceae	Variovorax
Xanthobacteraceae	Pseudolabrys
Burkholderiaceae	Ramlibacter
Weeksellaceae	Chryseobacterium
Flavobacteriaceae	Flavobacterium
Gemmatimonadaceae	NA
Gemmatimonadaceae	Gemmatimonas
Micromonosporaceae	NA
Burkholderiaceae	Aquabacterium
Pyrinomonadaceae	RB41
Mycobacteriaceae	Mycobacterium
Burkholderiaceae	Massilia
Sphingomonadaceae	Sphingomonas
Nitrosomonadaceae	Ellin6067
Sphingomonadaceae	Sphingomonas
Pseudonocardiaceae	Kibdelosporangium
Nitrosomonadaceae	Ellin6067
Nitrosomonadaceae	MND1
Sphingomonadaceae	NA
Nitrosomonadaceae	mle1-7
Burkholderiaceae	Herbaspirillum
Spongiibacteraceae	BD1-7_clade
Rhizobiaceae	Mesorhizobium
Burkholderiaceae	Piscinibacter
Pseudomonadaceae	Pseudomonas
Pseudonocardiaceae	Pseudonocardia
Devosiaceae	Devosia
Sphingomonadaceae	Sphingomonas
Pseudomonadaceae	Pseudomonas
Microscillaceae	Ohtaekwangia
Chloroflexaceae	FFCH7168
Caulobacteraceae	Caulobacter
Rhodanobacteraceae	Rhodanobacter
Xanthobacteraceae	NA



Nitrosomonadaceae	MND1
Xanthobacteraceae	NA
Caulobacteraceae	Phenylobacterium
Rhizobiaceae	Neorhizobium
Deinococcaceae	Deinococcus
Bdellovibrionaceae	OM27_clade
Pirellulaceae	Pirellula
Burkholderiaceae	Aquabacterium
Burkholderiaceae	Acidovorax
Devosiaceae	Devosia
Burkholderiaceae	Burkholderia-Caballeronia-Paraburkholderia
Hyphomonadaceae	SWB02
Magnetospiraceae	NA
Caulobacteraceae	NA
Unknown_Family	Acidibacter
Pseudomonadaceae	Pseudomonas
Burkholderiaceae	NA
Intrasporangiaceae	Lapillicoccus
Sphingomonadaceae	Novosphingobium
Haliangiaceae	Haliangium
SC-I-84	NA
Rhizobiaceae	NA
BIrii41	NA
Burkholderiaceae	Noviherbaspirillum
Xanthobacteraceae	Rhodopseudomonas
Burkholderiaceae	NA
Rhizobiaceae	Allorhizobium-Neorhizobium-Pararhizobium-Rhizobium
Micromonosporaceae	Krasilnikovia
Microscillaceae	Chryseolinea
Sphingomonadaceae	Novosphingobium
Rhizobiaceae	Mesorhizobium
Burkholderiaceae	NA
Rhodanobacteraceae	NA
Devosiaceae	Devosia
Polyangiaceae	Sorangium
Pseudomonadaceae	Pseudomonas
Geminicoccaceae	Candidatus_Alysiosphaera
Corynebacteriaceae	Lawsonella
Pirellulaceae	Pir4_lineage
Dongiaceae	Dongia
Burkholderiaceae	Piscinibacter
SC-I-84	NA
BIrii41	NA
Burkholderiaceae	Rhizobacter
Burkholderiaceae	Acidovorax
BIrii41	NA
Caulobacteraceae	Brevundimonas

Nitrosomonadaceae	Nitrosospira
Sphingomonadaceae	Sphingomonas
Devosiaceae	Devosia
Pseudonocardiaceae	Pseudonocardia
Sphingomonadaceae	Sphingomonas
Gaiellaceae	Gaiella
Kineosporiaceae	Kineosporia
Gemmatimonadaceae	Gemmatirosa
67-14	NA
Beijerinckiaceae	Microvirga
Burkholderiaceae	Mitsuaria
Devosiaceae	Devosia
Staphylococcaceae	Staphylococcus
Kineosporiaceae	Kineosporia
Xanthobacteraceae	Pseudolabrys
Sphingomonadaceae	Sphingopyxis
Burkholderiaceae	Massilia
Coleofasciculaceae	Microcoleus_PCC-7113
Fibrobacteraceae	possible_genus_04
Azospirillaceae	Skermanella
Caulobacteraceae	Phenylobacterium
Nocardioideaceae	Kribbella
Caulobacteraceae	Brevundimonas
Solirubrobacteraceae	Solirubrobacter
Nitrospiraceae	Nitrospira
Micrococcaceae	Arthrobacter
Xanthobacteraceae	Pseudolabrys
Bacteriovoraceae	Peredibacter
Rhizobiaceae	Allorhizobium-Neorhizobium-Pararhizobium-Rhizobium
Micromonosporaceae	NA
Caulobacteraceae	Phenylobacterium
Sphingomonadaceae	Sphingomonas
Pedosphaeraceae	NA
Dongiaceae	Dongia
TRA3-20	NA
Geodermatophilaceae	Blastococcus
Polyangiaceae	Aetherobacter
Nitrosomonadaceae	MND1
Halomonadaceae	Salinicola
Microscillaceae	Ohtaekwangia
Chromobacteriaceae	Vogesella
Burkholderiaceae	Rhizobacter
Paracaedibacteraceae	Candidatus_Paracaedibacter
Burkholderiaceae	Ramlibacter
Burkholderiaceae	Acidovorax
Burkholderiaceae	Curvibacter
Nitrosomonadaceae	Ellin6067

Pedosphaeraceae	NA
Burkholderiaceae	Roseateles
Kineosporiaceae	Kineosporia
Pyrinomonadaceae	RB41
Micromonosporaceae	Actinoplanes
Burkholderiaceae	NA
Burkholderiaceae	NA
Burkholderiaceae	Variovorax
Xanthomonadaceae	Arenimonas
Pseudonocardiaceae	Lechevalieria
Nitrospiraceae	Nitrospira
Burkholderiaceae	Ramlibacter
Microscillaceae	Ohtaekwangia
Sphingomonadaceae	Sphingomonas
Burkholderiaceae	NA
Pyrinomonadaceae	RB41
Nitrospiraceae	Nitrospira
Xanthobacteraceae	NA
Streptomycetaceae	Streptomyces
Pedosphaeraceae	NA
BRii41	NA
Burkholderiaceae	Ramlibacter
Sandaracinaceae	NA
Oligoflexaceae	Oligoflexus
Devosiaceae	Devosia
Unknown_Family	Acidibacter
Opitutaceae	IMCC26134
Burkholderiaceae	Ramlibacter
Xanthobacteraceae	Bradyrhizobium
Sphingomonadaceae	NA
Burkholderiaceae	NA
Geodermatophilaceae	Blastococcus
Promicromonosporaceae	Cellulosimicrobium
Micromonosporaceae	Actinoplanes
Burkholderiaceae	NA
Geminicoccaceae	Geminicoccus
Cellvibrionaceae	Cellvibrio
Burkholderiaceae	Duganella
Pseudonocardiaceae	Pseudonocardia
Gaiellaceae	Gaiella
Devosiaceae	Devosia
Steroidobacteraceae	Steroidobacter
Rhizobiaceae	Allorhizobium-Neorhizobium-Pararhizobium-Rhizobium
Nitrospiraceae	Nitrospira
Bacteriovoracaceae	Peredibacter
Pseudonocardiaceae	Pseudonocardia
Pedosphaeraceae	NA

Xanthobacteraceae	NA
Sphingomonadaceae	NA
Caulobacteraceae	Brevundimonas
Microscillaceae	Ohtaekwangia
Pedosphaeraceae	NA
Microbacteriaceae	Microbacterium
Burkholderiaceae	NA
Kineosporiaceae	Kineosporia
Caulobacteraceae	Caulobacter
Flavobacteriaceae	Flavobacterium
Burkholderiaceae	Variovorax
Opitutaceae	Lacunisphaera
Burkholderiaceae	Ideonella
67-14	NA
Micromonosporaceae	Actinoplanes
Gemmatimonadaceae	Gemmatimonas
Entothionellaceae	NA
Desulfarculaceae	NA
Kineosporiaceae	NA
Sandaracinaceae	NA
Burkholderiaceae	NA
Xanthomonadaceae	Stenotrophomonas
Steroidobacteraceae	Steroidobacter
Xanthobacteraceae	NA
Rubrobacteriaceae	Rubrobacter
Burkholderiaceae	Azohydromonas
Ilumatobacteraceae	CL500-29_marine_group
Beijerinckiaceae	Microvirga
Ilumatobacteraceae	Ilumatobacter
Burkholderiaceae	Ideonella
Burkholderiaceae	NA
Burkholderiaceae	Ramlibacter
Caulobacteraceae	Phenylobacterium
Kineosporiaceae	Kineosporia
Burkholderiaceae	Noviherbaspirillum
Rhizobiaceae	Allorhizobium-Neorhizobium-Pararhizobium-Rhizobium
Sphingomonadaceae	Sphingomonas
Solibacteraceae_(Subgroup_3)	Candidatus_Solibacter
Cellulomonadaceae	Cellulomonas
Micrococcaceae	Arthrobacter
Burkholderiaceae	NA
Burkholderiaceae	Noviherbaspirillum
Paenibacillaceae	Paenibacillus
Caulobacteraceae	Caulobacter
Xanthomonadaceae	Pseudoxanthomonas
Nitrosomonadaceae	Ellin6067
A21b	NA

Unknown_Family	Acidibacter
Microscillaceae	NA
Rhizobiaceae	Ciceribacter
Solirubrobacteraceae	Solirubrobacter
Sandaracinaceae	NA
Devosiaceae	Devosia
BRii41	NA
Pseudomonadaceae	Pseudomonas
Blfdi19	NA
Streptomycetaceae	Streptomyces
Geodermatophilaceae	Blastococcus
Devosiaceae	Devosia
TRA3-20	NA
Caulobacteraceae	Phenylobacterium
67-14	NA
Hyphomonadaceae	Hirschia
Pedosphaeraceae	NA
Caulobacteraceae	NA
Pedosphaeraceae	NA
Rickettsiaceae	NA
Beijerinckiaceae	Bosea
Burkholderiaceae	Aquabacterium
Sandaracinaceae	NA
Bacillaceae	Bacillus
Microscillaceae	Chryseolinea
Xanthomonadaceae	Pseudoxanthomonas
Micromonosporaceae	Micromonospora
Dongiaceae	Dongia
Hyphomicrobiaceae	Pedomicrobium
Sandaracinaceae	NA
Burkholderiaceae	Cupriavidus
Sphingomonadaceae	Sphingomonas
Microbacteriaceae	Microbacterium
Pseudonocardiaceae	Pseudonocardia
Sphingomonadaceae	Sphingomonas
Nocardioidaceae	Marmoricola
Sphingomonadaceae	Erythrobacter
Iamiaceae	Iamia
Unknown_Family	Acidibacter
Rhizobiaceae	Allorhizobium-Neorhizobium-Pararhizobium-Rhizobium
Gemmatimonadaceae	NA
Burkholderiaceae	Massilia
Beijerinckiaceae	Bosea
Nocardioidaceae	Marmoricola
Xanthobacteraceae	NA
Bdellovibrionaceae	Bdellovibrio
Burkholderiaceae	NA

Micromonosporaceae	Actinoplanes
Microscillaceae	Ohtaekwangia
Streptomycetaceae	Streptomyces
Nocardiodaceae	Marmoricola
Pseudonocardiaceae	Umezawaea
Xanthobacteraceae	NA
Rhodanobacteraceae	Frateuria
Pseudonocardiaceae	Pseudonocardia
Pedosphaeraceae	NA
Flavobacteriaceae	Flavobacterium
Beijerinckiaceae	Psychroglaciecola
cvE6	NA
Nitrosomonadaceae	Ellin6067
Nocardiodaceae	Aeromicrobium
Rhizobiales_Incertae_Sedis	NA
Pseudonocardiaceae	Pseudonocardia
Pseudonocardiaceae	Pseudonocardia
Micromonosporaceae	Virgisporangium
Pseudomonadaceae	Pseudomonas
Pseudonocardiaceae	Actinomycetospora
Burkholderiaceae	Cupriavidus
Burkholderiaceae	Aquabacterium
Caulobacteraceae	Brevundimonas
Rubrobacteriaceae	Rubrobacter
Microscillaceae	NA
Fibrobacteraceae	possible_genus_04
Archangiaceae	Archangium
Sandaracinaceae	NA
Sphingomonadaceae	Altererythrobacter
Microscillaceae	NA
Burkholderiaceae	Rhizobacter
Sporichthyaceae	NA
Burkholderiaceae	Burkholderia-Caballeronia-Paraburkholderia
Caulobacteraceae	Brevundimonas
Xanthobacteraceae	Bradyrhizobium
Gaiellaceae	Gaiella
Pseudomonadaceae	Pseudomonas
Nitrosomonadaceae	Ellin6067
Rhizobiaceae	Ochrobactrum
Sphingomonadaceae	Altererythrobacter
Microbacteriaceae	Galbitalea
Burkholderiaceae	Ramlibacter
Microscillaceae	Ohtaekwangia
Solimonadaceae	Panacagrimonas
Solirubrobacteraceae	Solirubrobacter
Gemmatimonadaceae	Gemmatimonas
Devosiaceae	Devosia

KF-JG30-B3	NA
Xanthobacteraceae	Rhodoplanes
Steroidobacteraceae	Steroidobacter
Gemmatimonadaceae	NA
Microscillaceae	Chryseolinea
Nannocystaceae	Nannocystis
Devosiaceae	Devosia
Xanthobacteraceae	NA
Geodermatophilaceae	Blastococcus
Enterobacteriaceae	Escherichia/Shigella
Haliangiaceae	Haliangium
TRA3-20	NA
Pedosphaeraceae	NA
Geodermatophilaceae	Blastococcus
Microbacteriaceae	Microbacterium
Burkholderiaceae	Massilia
Gaiellaceae	Gaiella
Longimicrobiaceae	NA
Xanthobacteraceae	Afipia
Rubrobacteriaceae	Rubrobacter
Caulobacteraceae	Phenylobacterium
Sphingomonadaceae	Altererythrobacter
Sphingobacteriaceae	Sphingobacterium
Flavobacteriaceae	Gilvibacter
Micropepsaceae	NA
Steroidobacteraceae	NA
Sphingomonadaceae	Sphingopyxis
Sphingomonadaceae	NA
Burkholderiaceae	Ramlibacter
Sphingomonadaceae	Novosphingobium
Steroidobacteraceae	Steroidobacter
Rhizobiaceae	Ensifer
Xanthomonadaceae	Arenimonas
Sandaracinaceae	NA
Devosiaceae	Devosia
Sphingomonadaceae	Sphingomonas
Polyangiaceae	Pajaroellobacter
Reyraneliaceae	Reyranelia
Rhodospirillaceae	NA
Archangiaceae	Cystobacter
Xanthobacteraceae	NA
Sphingomonadaceae	Sphingomonas
Microscillaceae	Ohtaekwangia
Pseudonocardiaceae	Pseudonocardia
Sphingomonadaceae	Sphingomonas
Bacillaceae	Bacillus
Chitinophagaceae	Niastella

Microscillaceae	NA
Microbacteriaceae	Conyzicola
Sphingomonadaceae	Altererythrobacter
Sandaracinaceae	NA
Desulfarculaceae	NA
Magnetospiraceae	NA
Blfdi19	NA
Pseudomonadaceae	Azotobacter
Microscillaceae	Ohtaekwangia
Xanthomonadaceae	NA
Burkholderiaceae	Ramlibacter
Steroidobacteraceae	Steroidobacter
Burkholderiaceae	Rhizobacter
Burkholderiaceae	Caenimonas
Xanthobacteraceae	Rhodoplanes
Gemmatimonadaceae	Gemmatirosa
Burkholderiaceae	NA
Flavobacteriaceae	Flavobacterium
Burkholderiaceae	Caenimonas
Methylophilaceae	Methylothera
Caulobacteraceae	Phenylobacterium
Devosiaceae	Devosia
Micromonosporaceae	Dactylosporangium
Caulobacteraceae	Caulobacter
Burkholderiaceae	NA
Caulobacteraceae	NA
Rubrobacteriaceae	Rubrobacter
Sphingomonadaceae	Sphingomonas
Streptococcaceae	Streptococcus
Burkholderiaceae	Pelomonas
Magnetospiraceae	NA
BRii41	NA
Blastocatellaceae	NA
Gemmatimonadaceae	Gemmatimonas
Gemmatimonadaceae	NA
Micromonosporaceae	Actinoplanes
Sphingomonadaceae	Ellin6055
Nocardioideaceae	Kribbella
Kineosporiaceae	Kineosporia
Beijerinckiaceae	Microvirga
Acetobacteraceae	Belnapia
Sandaracinaceae	NA
Sphingomonadaceae	Ellin6055
Caulobacteraceae	Caulobacter
Burkholderiaceae	Rhizobacter
Streptomyetaceae	Streptomyces
Geodermatophilaceae	Blastococcus



env.OPS_17	NA
Sphingomonadaceae	Sphingomonas
Solimonadaceae	Panacagrimonas
Sphingomonadaceae	Sphingomonas
Micropepsaceae	NA
SC-I-84	NA
Sphingobacteriaceae	Sphingobacterium
Microbacteriaceae	Agromyces
Ardenticatenaceae	NA
Paenibacillaceae	Paenibacillus
BIrii41	NA
Sphingomonadaceae	Sphingomonas
Pseudonocardiaceae	Lechevalieria
SC-I-84	NA
Micromonosporaceae	Actinoplanes
Burkholderiaceae	Massilia
Opitutaceae	Lacunisphaera
SC-I-84	NA
env.OPS_17	NA
Gaiellaceae	Gaiella
Pedosphaeraceae	NA
Spongiibacteraceae	BD1-7_clade
Hymenobacteraceae	Adhaeribacter
BIrii41	NA
Gemmatimonadaceae	NA
Sandaracinaceae	NA
Mycobacteriaceae	Mycobacterium
Caulobacteraceae	Caulobacter
Micromonosporaceae	Dactylosporangium
Acetobacteraceae	Belnapia
Devosiaceae	Devosia
Nitrosomonadaceae	Ellin6067
Pseudonocardiaceae	Pseudonocardia
Sandaracinaceae	NA
Alteromonadaceae	Rheinheimera
Micromonosporaceae	Actinoplanes
A21b	NA
Sphingomonadaceae	Ellin6055
Longimicrobiaceae	NA
Nocardioidaceae	Nocardioides
Sphingomonadaceae	Sphingomonas
Micromonosporaceae	Phytohabitans
SC-I-84	NA
Hyphomicrobiaceae	Pedomicrobium
Xanthomonadaceae	Arenimonas
Xanthobacteraceae	NA
Sandaracinaceae	NA

Pirellulaceae	Pirellula
Rhodopirillaceae	Defluviicoccus
Burkholderiaceae	Herbaspirillum
Hyphomicrobiaceae	NA
Rhodanobacteraceae	NA
Pseudonocardiaceae	Pseudonocardia
Microbacteriaceae	Agromyces
Solirubrobacteraceae	Solirubrobacter
Ilumatobacteraceae	Ilumatobacter
Nitrosomonadaceae	MND1
Steroidobacteraceae	NA
Iamiaceae	Iamia
Pedosphaeraceae	NA
Flavobacteriaceae	Flavobacterium
Devosiaceae	Devosia
Xanthobacteraceae	Pseudorhodoplanes
Bdellovibrionaceae	OM27_clade
Devosiaceae	Devosia
Caulobacteraceae	Caulobacter
Rhodospirillaceae	NA
Cellulomonadaceae	Cellulomonas
Micrococcaceae	Paenarthrobacter
Oligoflexaceae	Oligoflexus
Rhizobiaceae	Allorhizobium-Neorhizobium-Pararhizobium-Rhizobium
Microscillaceae	Chryseolinea
Nitrosomonadaceae	MND1
Geodermatophilaceae	Blastococcus
Micromonosporaceae	NA
Mycobacteriaceae	Mycobacterium
Xanthobacteraceae	Rhodoplanes
Ilumatobacteraceae	Ilumatobacter
Hyphomicrobiaceae	Pedomicrobium
Reyraneliaceae	NA
Micromonosporaceae	Actinoplanes
Hyphomicrobiaceae	Hyphomicrobium
Nitrospiraceae	Nitrospira
Gaiellaceae	Gaiella
Xanthomonadaceae	Lysobacter
Burkholderiaceae	Ramlibacter
Sphingomonadaceae	Sphingomonas
Ilumatobacteraceae	NA
Xanthobacteraceae	Rhodoplanes
Caulobacteraceae	Asticcacaulis
Nitrosomonadaceae	Ellin6067
Devosiaceae	Devosia
Devosiaceae	Devosia
Micromonosporaceae	Virgisporangium

Burkholderiaceae	Burkholderia-Caballeronia-Paraburkholderia
Burkholderiaceae	Massilia
0319-6G20	NA
Sphingomonadaceae	Novosphingobium
Caulobacteraceae	NA
TRA3-20	NA
Flavobacteriaceae	Flavobacterium
Burkholderiaceae	Rhizobacter
BIrii41	NA
Devosiaceae	Devosia
Sphingomonadaceae	Sphingomonas
Bdellovibrionaceae	OM27_clade
Reyranellaceae	NA
Gemmatimonadaceae	NA
Nitrosomonadaceae	Ellin6067
Rhodanobacteraceae	Tahibacter
Rhizobiaceae	Allorhizobium-Neorhizobium-Pararhizobium-Rhizobium
SC-I-84	NA
SM2D12	NA
Rhizobiales_Incertae_Sedis	Nordella
Nitrospiraceae	Nitrospira
Burkholderiaceae	Ramlibacter
Nitrosomonadaceae	MND1
SC-I-84	NA
Pseudonocardiaceae	Amycolatopsis
Archangiaceae	Angiococcus
Xanthobacteraceae	NA
Solimonadaceae	Fontimonas
Phycisphaeraceae	SM1A02
Sandaracinaceae	NA
Kineosporiaceae	Angustibacter
Nocardioidaceae	Nocardioides
Sphingomonadaceae	NA
Nitrosomonadaceae	Ellin6067
Pedosphaeraceae	NA
Burkholderiaceae	Massilia
Gemmatimonadaceae	NA
SS1-B-06-26	NA
Sphingomonadaceae	Sphingomonas
Burkholderiaceae	Ideonella
Pseudonocardiaceae	Pseudonocardia
Sphingomonadaceae	Sphingomonas
Caulobacteraceae	Phenylobacterium
Polyangiaceae	Polyangium
Rhizobiaceae	Allorhizobium-Neorhizobium-Pararhizobium-Rhizobium
Xanthobacteraceae	Pseudolabrys
Steroidobacteraceae	Steroidobacter

Archangiaceae	Archangium
Burkholderiaceae	Massilia
Microtrichaceae	NA
Micropepsaceae	NA
Intrasporangiaceae	NA
Sphingomonadaceae	Ellin6055
Burkholderiaceae	Piscinibacter
Hyphomicrobiaceae	Pedomicrobium
Micromonosporaceae	Actinoplanes
Microscillaceae	Ohtaekwangia
Burkholderiaceae	Caenimonas
Nocardiodaceae	Aeromicrobium
Pseudomonadaceae	Pseudomonas
Pseudonocardiaceae	Actinophytocola
Bdellovibrionaceae	OM27_clade
Sandaracinaceae	NA
Caulobacteraceae	Phenylobacterium
Sphingomonadaceae	Sphingaurantiacus
Rhizobiaceae	Allorhizobium-Neorhizobium-Pararhizobium-Rhizobium
Azospirillaceae	Skermanella
Burkholderiaceae	Rhizobacter
Sphingomonadaceae	Sphingomonas
Devosiaceae	NA
Sphingomonadaceae	Altererythrobacter
Burkholderiaceae	Ramlibacter
Microbacteriaceae	Microbacterium
Intrasporangiaceae	Phycococcus
Burkholderiaceae	NA
Sphingomonadaceae	Ellin6055
Rhizobiaceae	NA
Caulobacteraceae	NA
Pedosphaeraceae	NA
Solirubrobacteraceae	Solirubrobacter
Micropepsaceae	NA
Burkholderiaceae	Massilia
Ilumatobacteraceae	CL500-29_marine_group
Flavobacteriaceae	NA
Steroidobacteraceae	Steroidobacter
Bdellovibrionaceae	Bdellovibrio
Xanthobacteraceae	NA
Xanthomonadaceae	Arenimonas
Geodermatophilaceae	Blastococcus
67-14	NA
Nocardiodaceae	Nocardioides
Caulobacteraceae	Brevundimonas
Sporichthyaceae	NA
Azospirillaceae	NA

BIrii41	NA
Microbacteriaceae	Schumannella
Sphingomonadaceae	Ellin6055
Xanthobacteraceae	Pseudolabrys
Pyrinomonadaceae	RB41
Saprospiraceae	NA
Sphingomonadaceae	NA
Thermoanaerobaculaceae	Subgroup_10
SC-I-84	NA
Micromonosporaceae	Actinoplanes
Burkholderiaceae	Caenimonas
Sphingomonadaceae	Sphingomonas
67-14	NA
Rhodomicrobiaceae	Rhodomicrobium
Caulobacteraceae	Caulobacter
Rhodomicrobiaceae	Rhodomicrobium
Burkholderiaceae	Noviherbaspirillum
Alicyclobacillaceae	Tumebacillus
Microtrichaceae	NA
Rhodospirillaceae	NA
Beijerinckiaceae	NA
0319-6G20	NA
Thermomonosporaceae	Actinocorallia
Rhizobiaceae	Neorhizobium
Micromonosporaceae	Actinoplanes
Kineosporiaceae	Kineosporia
Oligoflexaceae	NA
Methylophilaceae	Methylophilus
Desulfarculaceae	NA
Gemmatimonadaceae	NA
Nitrosomonadaceae	NA
Sphingomonadaceae	Sphingomonas
Thermoanaerobaculaceae	Subgroup_10
Microscillaceae	Ohtaekwangia
Microscillaceae	Chryseolinea
Sphingomonadaceae	Ellin6055
Sphingomonadaceae	Sphingobium
Sphingomonadaceae	Altererythrobacter
Microscillaceae	Ohtaekwangia
Micromonosporaceae	NA
env.OPS_17	NA
BIrii41	NA
Microscillaceae	Ohtaekwangia
Acetobacteraceae	Belnapia
Sporichthyaceae	Sporichthya
AKYH767	NA
Nitrosomonadaceae	Ellin6067

BIrii41	NA
Sphingomonadaceae	Sphingoaurantiacus
Burkholderiaceae	Ramlibacter
Devosiaceae	Devosia
Microscillaceae	Ohtaekwangia
Micromonosporaceae	Actinoplanes
Pseudohongiellaceae	BIyi10
Rhodospirillaceae	NA
Beijerinckiaceae	Microvirga
Pirellulaceae	Pirellula
Rhizobiales_Incertae_Sedis	NA
Xanthobacteraceae	Pseudolabrys
Dongiaceae	Dongia
Burkholderiaceae	Ramlibacter
Unknown_Family	Vicinamibacter
Midichloriaceae	Candidatus_Jidaibacter
Sphingomonadaceae	Altererythrobacter
Paracaedibacteraceae	Candidatus_Paracaedibacter
Phycisphaeraceae	SM1A02
67-14	NA
Oligoflexaceae	Oligoflexus
Saprospiraceae	NA
Xanthomonadaceae	Thermomonas
Cellvibrionaceae	Cellvibrio
Fimbriimonadaceae	NA
BIrii41	NA
Rubrobacteriaceae	Rubrobacter
Nitrosomonadaceae	Ellin6067
Iamiaceae	Iamia
Xanthobacteraceae	NA
Sphingomonadaceae	Sphingomonas
Rhodanobacteraceae	Chiayiivirga
Iamiaceae	Iamia
Beijerinckiaceae	Microvirga
Desulfarculaceae	NA
KF-JG30-B3	NA
Sphingomonadaceae	Plot4-2H12
Pirellulaceae	Pirellula
Halomonadaceae	Halomonas
Haliangiaceae	Haliangium
BIrii41	NA
Nitrosomonadaceae	MND1
Koribacteraceae	Candidatus_Koribacter
Caulobacteraceae	Caulobacter
Rhizobiaceae	Mycoplana
Cytophagaceae	Cytophaga
Microscillaceae	NA

Caulobacteraceae	NA
Xanthobacteraceae	NA
SC-I-84	NA
Xanthobacteraceae	NA
Solirubrobacteraceae	NA
Xanthobacteraceae	NA
Rhizobiaceae	Mesorhizobium
Fimbriimonadaceae	NA
Micromonosporaceae	NA
Microscillaceae	Ohtaekwangia
Moraxellaceae	NA
Rhizobiales_Incertae_Sedis	Nordella
Nitrosomonadaceae	NA
Phycisphaeraceae	SM1A02
Flavobacteriaceae	Flavobacterium
Microscillaceae	NA
Devosiaceae	Devosia
Rhizobiales_Incertae_Sedis	Bauldia
Rhizobiales_Incertae_Sedis	Bauldia
Pseudonocardiaceae	Pseudonocardia
Microbacteriaceae	Cryobacterium
Gemmatimonadaceae	Gemmatirosa
Solirubrobacteraceae	NA
Solibacteraceae_(Subgroup_3)	Bryobacter
TRA3-20	NA
Longimicrobiaceae	NA
Fimbriimonadaceae	NA
SC-I-84	NA
Rhodobacteraceae	Amaricoccus
Crocinitomicaceae	Crocinitomix
Solibacteraceae_(Subgroup_3)	Bryobacter
A21b	NA
Micromonosporaceae	Actinoplanes
Sphingomonadaceae	Sphingomonas
Burkholderiaceae	Ramlibacter
Pirellulaceae	NA
Steroidobacteraceae	NA
env.OPS_17	NA
Beijerinckiaceae	Microvirga
SM2D12	NA
Pedosphaeraceae	NA
Gemmatimonadaceae	NA
Microscillaceae	Ohtaekwangia
Burkholderiaceae	Lautropia
Flavobacteriaceae	Flavobacterium
Pedosphaeraceae	NA
0319-6G20	NA

Methyloligellaceae	NA
Sandaracinaceae	NA
Halomonadaceae	Halomonas
Micromonosporaceae	Actinoplanes
Paracaedibacteraceae	NA
Steroidobacteraceae	NA
Blastocatellaceae	NA
Haliangiaceae	Haliangium
Nitrosomonadaceae	Ellin6067
Beijerinckiaceae	NA
Rhodocyclaceae	Sulfuritalea